

## **KIFAYATULLAH KHAN, PhD (CAS-TWAS)**

Associate Professor

Department of Environmental & Conservation Sciences,  
University of Swat, Swat 19130, Khyber Pakhtunkhwa, Pakistan

: [drkhan@uswat.edu.pk](mailto:drkhan@uswat.edu.pk); [kk.environ@yahoo.com](mailto:kk.environ@yahoo.com)

ORCID: <https://orcid.org/0000-0001-8107-1959>



### **SHORT BIOGRAPHY:**

#### 00 Entry(s)

Dr. Kifayatullah Khan is Research Professor (associate) at the Department of Environmental and Conservation Sciences, University of Swat, Khyber Pakhtunkhwa, Pakistan. He received his PhD in the discipline of Environmental Sciences from the University of Peshawar in 2013 as a fellow of The World Academy of Sciences (TWAS)-Chinese Academy of Sciences (CAS). He did his Postdoctoral research in the same discipline as a fellow of the 2016 President's International Fellowship Initiative (PIFI) at the Research Centre for Eco-Environmental Sciences (RCEES), CAS, Beijing, China. He is an active member of International Centre for Integrated Mountain Development (ICIMOD) thematic working group related to water, disaster and resilience; and climate change after successful participation in the ICIMOD International Asia-Pacific Water Leadership Programme (APLWP) held in Australia on April 8-19, 2018. Besides, as an active environmental ecologist, he has published good papers/books in the international peer reviewed journals such as, Environment International, Environmental Science and Technology; Environmental Pollution, Journal of Cleaner Production, Food and Chemical Toxicology, Ecotoxicology and Environmental Safety, Journal of Environmental Sciences, Science of the Total Environment, Chemosphere, International Journal of phytoremediation, Environmental Toxicology and Pharmacology, Journal of Environmental Chemical Engineering, Resources, Conservation and Recycling; Clean-Air, Soil and Water, Water Science and Technology, Environmental Monitoring and Assessment, Earth Science & Climatic Change, Sustainability and LAMBERT etc. with major research interests focusing on; Ecological health impacts and risk assessment of conventional and emerging pollutants, Water resource management, Climate change, Urban ecological planning and assessment, and Environmental management and policy.

The details of his particular achievements are given below:

**Education:**

07 Entry(s)

1. Degree/Certificate: **Post doctorate**

Fellowship: CAS President's International Fellowship Initiative

Institute: Research Centre for Eco-Environmental Sciences

Address: Beijing, China

Report Title: Bioavailability of conventional and emerging pollutants in environmental matrices and its application to risk assessment

Major: Environmental toxicology of conventional and emerging pollutants; water resource management of Pakistan

Session: 2017-2018

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2. Degree Name: **PhD-Environmental Sciences**

Level Attained: PhD (CAS-TWAS)

CGPA: 3.8/4.0

Institute: Department of Environmental Sciences,

Address: University of Peshawar, Peshawar, KP, Pakistan

Session: 2009-2013

Thesis Title: Environmental concentration of heavy metals and their health impacts in Swat, Pakistan

Major subjects: Pollution Control Technology, Atmospheric Chemistry, Fresh Water Ecology, Advance Waste Water Treatment, Environmental Policies, Population Dynamics and the Environment, Environmental Geology, Advance Environmental Economics, Advance Environmental Impact Assessment, Aquatic Chemistry of the Environment, Advance Ecology, Solid and Hazardous Waste Management, Health Safety and Environment.

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3. Degree Name: **BS-Environmental Science**

Level Attained: Master's Degree (BS horn)

CGPA: 3.4/4.0

Institute: Department of Environmental Sciences,

Address: University of Peshawar, Peshawar, KP, Pakistan

Session: 2004-2008

Thesis Title: Conservation of Rhododendron in Dadar, Mansehra, KP, Pakistan

Major subjects: Environmental Impact Assessment, Applied Ecology, Remote Sensing, Environmental Chemistry, Health Safety and Environment, Environmental Geology, Research Methodology, Environmental Planning & Management, Natural Resource Management, Pollution Control Technology, Environmental Policies and Laws.

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4. Degree Name: **HSSC (Pre-Medical)**  
Level Attained: F. Sc  
CGPA: 72%  
Institute: B.I.S.E Swat  
Address: GHSS, Fatehpur, Swat, KP, Pakistan  
Session: 2001-2003  
Major subjects: Pre-Medical

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5. Degree Name: **SSC (Science)**  
Level Attained: Metric  
CGPA: 66%  
Institute: B.I.S.E Swat  
Address: GHSS, Fatehpur, Swat, KP, Pakistan  
Session: 1999-2000  
Major subjects: Science subjects

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6. Degree Name: **DIT (Computer Diploma)**  
Level Attained: One-year Diploma  
CGPA: 85%  
Institute: T.T Board, Peshawar  
Address: Fatehpur Swat KP, Pakistan  
Session: 2001-2003

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7. Degree Name: **International human Rights**  
Level Attained: Diploma  
Institute: Law College, Peshawar of University  
Address: Peshawar, KP, Pakistan  
Session: 2009-2010

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**Experience:**

07 Entry(s)

1. Organization: **University of Swat, Pakistan**  
Organization type: Government  
Designation: Associate Professor, Department of Environmental and Conservation Sciences  
Location: University of Swat, Pakistan  
Type of Experience: Full time  
Tenure: Since April 12, 2021

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2. Organization: **University of Swat, Pakistan**  
Organization type: Government  
Designation: Assistant Professor, Department of Environmental and Conservation Sciences  
Location: University of Swat, Pakistan  
Type of Experience: Full time  
Tenure: From Nov 20, 2013-April 12, 2021

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  3. Organization: **University of Swat, Pakistan**  
Organization type: Government  
Designation: Assistant Professor/Chair, Department of Environmental and Conservation Sciences  
Location: University of Swat, Pakistan  
Type of Experience: Full time  
Tenure: From March 10, 2014-October 06, 2020

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  4. Organization: **Research Centre for Eco-Environmental Sciences**  
Organization type: Government  
Designation: CAS- PIFI Postdoctoral Fellow  
Location: Beijing, China  
Type of Experience: Full time  
Tenure: January 1, 2017-April 30, 2018

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  5. Organization: **Research Centre for Eco-Environmental Sciences**  
Organization type: Government Organization  
Designation: CAS-TWAS PhD fellow  
Location: Beijing, China  
Type of Experience: Full time  
Tenure: March 02, 2012-February 28, 2013

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  6. Organization: **Nuclear Institute of Food and Agriculture**  
Organization type: Government Organization  
Designation: Research Officer  
Location: Peshawar, KP, Pakistan  
Type of Experience: Full Part time  
Tenure: March, 2010-May, 2011

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  7. Organization: **Pakistan Forest Institute**  
Organization type: Government Institute  
Designation: Research Officer  
Location: Dadar, Mansehra, KP, Pakistan  
Type of Experience: Full Time/Interne  
Tenure: September 25, 2008- January 25,2009
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8. Organization: **Creative Art Society**  
Organization type: Government  
Designation: Zonal Representative  
Location: Peshawar University, KP, Pakistan  
Type of Experience: Full Time  
Tenure: January, 2006-December, 2007
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**Teaching Interests:**

15 Entry(s)

Environmental Chemistry; Research Methodology; Water Resource Management; Climate Change; Urban Ecological Planning and Assessment; Environmental Management and Policy; Pollution Control Technology; Environmental Laws and Policies; Environmental Toxicology; Disaster Management; Environmental Impact Assessment; Solid and Hazardous Waste Management; Health Safety and Environment; Environmental Planning & Management; Natural Resource Management etc.

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**Research Interests:**

06 Entry(s)

Ecological health impacts and risk assessment of conventional and emerging pollutants; Pollution valuation, evaluation, occurrence, spatial and temporal trends and source identification in both aquatic and terrestrial resources; Water resource management; Climate change; Urban ecological planning and assessment, and Environmental management and policy etc.

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**Running Projects:**

04 Entry(s)

1. Quantification, distribution and bioaccumulation of Emerging Pollutants (perfluorinated compounds) in the environmental matrices of Pakistan. (Postdoctoral project)
  2. Assessment of drinking water quality and human health risks in Swat, northern Pakistan.
  3. Hospital waste management in Swat, Khyber Pakhtunkhwa (KP), Pakistan
  4. Quantification of heavy metals in agricultural soil, crops and water and their respective human health risks in District Shangla and Kohistan, KP, Pakistan.
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**HEC Approved Supervisor:**

01 Entry(s)

1. HEC Approved Supervisor and Productive Scientist since 2014.
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## Research Books:

01 Entry(s)

1. **Khan, K.**, Khan, H., Lu, Y., (2014). *Environmental Concentrations of Heavy Metals and Their Health Impacts*, ISBN 978-3-659-58998-0, Saarbrücken, Germany; LAP LAMBERT.
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## Published Articles

34 Entry(s)

1. Banila, Y., Lu, Y., Qian, Z., Zhange, M., Yuan, J., Zhou, Y., **Khan, K.**, 2020. Material use and resource efficiency of African sub-regions. *Journal of Cleaner Production* 247, 1190-92.
2. Zhang, M., Lu, Y., Lu, X., Zhang, A., Zhang, Y., **Khan, K.**, Sarvajayakesavalu, S., 2020. Bioaccumulation and human exposure of perfluoroalkyl acids (PFAAs) in vegetables from the largest vegetable production base of China. *Environment International* 135, 105347.
3. Cao, X., Lu, Y., Wang, C., Zhang, M., Yuan, J., Zhang, A., Song, S., Baninla, Y., **Khan, K.**, Wang, Y., 2019. Hydrogeochemistry and quality of surface water and groundwater in the drinking water source area of an urbanizing region. *Ecotoxicology and Environmental Safety* 186, 109628.
4. Ahmad, R., Liu, G., Santagata, R., Casazza, M., Xue, J., **Khan, K.**, Nawab, J., Ulgiati, S. and Lega, M., 2019. LCA of Hospital Solid Waste Treatment Alternatives in a Developing Country: The Case of District Swat, Pakistan. *Sustainability*, 11(13),3501.
5. Cao, X., Wang, C., Lu, Y., Zhang, M., **Khan, K.**, Song, S., Wang, P., Wang, C., (2019). Occurrence, sources and health risk of polyfluoroalkyl substances (PFASs) in soil, water and sediment from a drinking water source area. *Ecotoxicology and Environmental Safety* 174, 208–217.
6. Sharif, H.M.A., Cheng, H.Yi., Haider, M.R., **Khan, K.**, Yang, L., and Wang, A., 2019. NO removal with efficient recovery of N<sub>2</sub>O by using recyclable Fe<sub>3</sub>O<sub>4</sub>@EDTA@Fe(II) complex: a novel approach towards resource recovery from flue gas. Accepted in the *Environmental Science & Technology* 10-12.
7. Wang, C., Li, Q., Lu, Y., Wang, T., **Khan, K.**, Wang, P., Meng, J., Zhou, Y., Yvette, B., Suriyanarayanan, S., 2019. Simulating transport, flux, and ecological risk of perfluorooctanoate 2 in a river affected by a major fluorochemical manufacturer in 3 northern China, *Science of the Total Environment* 657; 792–803.
8. Baninla, Y., Zhang, M., Lu, Y., Lianga, R., Zhang, Q., Zhou, Y., **Khan, K.**, 2019. A transitional perspective of global and regional mineral material flows. *Resources, Conservation and Recycling*, 140, 91-101.
9. Lu, X., Lu, Y., Chen, D.L., Su, C., Song, S., Wang, T., Tian, H., Liang, R., Zhang, M., **Khan, K.**, 2019. Climate change induced eutrophication of cold-water lake in an ecologically fragile nature reserve. *Journal of Environmental Sciences*, 75, 359-369.

10. Ilyas, M., Ahmad, W., Khan, H., Yousaf, S., **Khan, K.**, & Nazir, S. (2018). Plastic waste as a significant threat to environment—a systematic literature review. *Reviews on environmental health*. DOI: <https://doi.org/10.1515/reveh-2017-0035>.
11. Su, C., Song, S., Lu, Y., Wang, P., Meng, J., Lu, X., Jürgens, M., **Khan, K.**, Baninla, Y., Liang, R., 2018. Multimedia fate and transport simulation of Perfluorooctanoic Acid/Perfluorooctanoate in an urbanizing area. *Science of the Total Environment*, 643, 90–97.
12. Shuai, S., Fadong., L., Yonglong, L., **Khan, K.**, Jianfang, X., Peifang, L., 2018. Spatio-temporal Characteristics of the Extreme Climate Events and Their Potential Effects on Crop Yield in Ethiopia. *Journal of Resources and Ecology*, 9(3) 290-301.
13. Liang, R., Chen, J., Shi, Y., Lu, Y., Sarvajayakesavalu, S., Xu, X., Zheng, X., **Khan, K.**, Su, C., 2018. Toxicological effects on earthworms (*Eisenia fetida*) exposed to sub-lethal concentrations of BDE-47 and BDE-209 from a metabolic point. *Environmental Pollution* 240, 653-660.
14. Li, Q., Zhang, Y., Lu, Y., Wang, P., Suriyanarayanan, S., Meng, J., Zhou, Y., Liang, R., **Khan, K.**, 2018. Risk ranking of environmental contaminants in Xiaoqing River, a heavily polluted river along urbanizing Bohai Rim. *Chemosphere*, 204, 28-35
15. Li, Q., Lu, Y., Wang, P., Wang, T., Suriyanarayanan, S., Liang, R., Baninla, Y., **Khan, K.**, 2018. Distribution, source, and risk of organochlorine pesticides (OCPs) and polychlorinated biphenyls (PCBs) in urban and rural soils around the Yellow and Bohai Seas, China. *Environmental Pollution*, 239, 233-241.
16. Zhou, Y., Wang, T., Li, Q., Wang, P., Li, L., Chen, S., Zhang, Y., **Khan, K.**, Meng, J., 2018. Spatial and vertical variations of perfluoroalkyl acids (PFAAs) in the Bohai and Yellow Seas: Bridging the gap between riverine sources and marine sinks. *Environmental Pollution*, 238,111–120.
17. Cao, X., Lu, Y., Zhang, Y., **Khan, K.**, Wang, C., Baninla, Y., 2018. An overview of hexabromocyclododecane (HBCDs) in environmental media with focus on their potential risk and management in China. *Environmental Pollution*, 236, 283-295.
18. Su, C., Lu, Y., Wang, T., Lu, X., Song, S., Li, L., **Khan, K.**, Wang, C. and Liang, R., 2018. Dynamic multimedia fate simulation of Perfluorooctane Sulfonate (PFOS) from 1981 to 2050 in the urbanizing Bohai Rim of China. *Environmental Pollution*, 235, 235-244.
19. **Khan, K.**, Lu, Y., Saeed, M.A., Bilal, H., Sher, H., Khan, H., Ali, J., Wang, P., Uwizeyimana, H., Baninla, Y. and Li, Q., 2017. Prevalent fecal contamination in drinking water resources and potential health risks in Swat, Pakistan. *Journal of Environmental Sciences*, 72,1-12. <https://doi.org/10.1016/j.jes.2017.12.008>.
20. Uwizeyimana, H., Wang, M., Chen, W., **Khan, K.**, 2018. Ecotoxicological effects of binary mixtures of siduron and Cd on mRNA expression in the earthworm *Eisenia fetida*. *Science of The Total Environment*, 610–611, 657–665.
21. Uwizeyimana, H., Wang, M., Chen, W., **Khan, K.**, 2017. The eco-toxic effects of pesticide and heavy metal mixtures towards earthworms in soil. *Environmental Toxicology and Pharmacology*, 55, 20-29.



22. Liu, Z., Lu, Y., Shia, Y., Wang, P., Jones, K., Sweetman, A.J., Johnson, A.C., Zhang, M., Zhou, Y., Lu, X., Su, C., Sarvajayakesavaluc, S., **Khan, K.**, 2017. Crop bioaccumulation and human exposure of perfluoroalkyl acids through multi-media transport from a mega fluorochemical industrial park, China. *Environment International* 106, 37–47.
23. Ali J, Ali N, Jamil S U U., Hassan Waseem, H., **Khan, K.**, Pan, G., 2017. Insight into ecofriendly fabrication of silver nanoparticles by *Pseudomonas aeruginosa* and its potential impacts. *Journal of Environmental Chemical Engineering*, 5(4):3266-3272.
24. Nawab, J., Khan, Ali, S., Sher, H., Rahman, Z., **Khan, K.**, Tang, J., Ahmad, A., 2016. Health risk assessment of heavy metals and bacterial contamination in drinking water sources: a case study of malakand Agency, Pakistan. *Environmental Monitoring and Assessment*, 188 (5):1-12. DOI 10.1007/s10661-016-5296-1.
25. Nawab, J., Shah, MT., Khan, S., Qing, H., **Khan, K.**, Ali, R., 2016. Heavy metals bioaccumulation in native plants in chromite impacted sites: A search for effective remediating plant species. *Clean–Soil, Air, Water*, 44(1): 37–46. DOI: 10.1002/clen.201400605.
26. Noor S. Shah, Khan,J.A., Nawaz, S., M. Ismail, **Khan, K.**, Khan, H.M., 2015.Kinetic and mechanism investigation on the gamma irradiation induced degradation of endosulfan sulfate. *Chemosphere*, 121, 18–25. DOI: 10.1016/j.chemosphere.2014.10.046.
27. Shamshad, I., Khan, S., Waqas, M., Ahmad, N., -Ur-Rehman, K., **Khan, K.**, 2015. Removal and bioaccumulation of heavy metals from aqueous solutions using freshwater algae. *Water Science and Technology*, 71(1): 38-44. DOI: 10.2166/wst.2014.458.
28. Nawab, J., Khan, S., Shah, M.T., **Khan, K.**, Huang, Q., Ali, R., 2015. Quantification of Heavy Metals in Mining Affected Soil and Their Bioaccumulation in Native Plant Species, *International Journal of Phytoremediation*, 17(9): 801-813. DOI: 10.1080/15226514.2014.981246.
29. **Khan, K.**, Lu, Y., Khan, H., Ihsanullah, Khan, S., Nawab, J., Shamshad, I., 2014. Evaluation of toxicological risk of foodstuffs contaminated with heavy metals in Swat, Pakistan. *Ecotoxicology and Environmental Safety* 108(1): 224–232. DOI: 10.1016/j.ecoenv.2014.05.014.
30. Maryam, A., Khan, S., Khan, M.A., **Khan, K.**, Rabbi, F., Ali, S., 2015. The Perception of Local Community about the Effects of Climate Change in Upper Swat, Khyber Pakhtunkhwa, Pakistan. *Earth Science & Climatic Change*. 5 (3): 1-4. DOI:10.4172/2157-7617.1000183.
31. Ishtiaq, M., Rabnawaz, **Khan, K.**, Khan, H., Zakir, S., Sarwar, G., Jehan, N., 2014. Prevalence of Pneumoconiosis among coal miners of Cherat, district Nowshera - Pakistan. *Journal of Postgraduate Medical Institute*, 28(2):139-44.
32. Waqas, M., Khan, S., Chao, C., Shamshad, I., Qamar, Z., **Khan, K.**, 2014. Quantification of PAHs and health risk via ingestion of vegetable in Khyber Pakhtunkhwa Province, Pakistan. *Science of the Total Environment*, 497–498: 448–458.
33. **Khan, K.**, Lu, Y., Khan, H., Ishtiaq, M., Khan, S., Waqas, M., Wei, L., Wang, T., 2013a. Heavy metals in agricultural soils and crops and their health risks in Swat District, northern Pakistan. *Food and Chemical Toxicology* 58(7): 449–458. DOI: 10.1016/j.fct.2013.05.014.



34. **Khan, K.**, Lu, Y., Khan, H., Zakir, S., Ihsanullah, Khan, S., Khan, A. A., Wei, L., Wang, T., 2013b. Health risks associated with heavy metals in the drinking water of Swat, northern Pakistan. *Journal of Environmental sciences* 25(10): 2003–2013. DOI: 10.1016/S1001-0742(12) 60275-7.
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### **Conference/Workshop/Training Attended:**

#### **22 Entry(s)**

1. Attended 14-days Himalayan University Consortium (**HUC**)-International Centre for Integrated Mountain Development (**ICIMOD**) Regional Training on Springshed Management for Socio-Ecological Resilience in the Hindu Kush Himalaya held at Kathmandu/Godavari, Nepal, 24 March–6 April 2019
2. As a panel member attended 1-day Seminar on title” Environmental degradation” mutually organized by the University of Swat and Pak Army 2-Field Regiment Artillery Operation area (Swat) held at Afzal Khan Lala Degree College Matta, Swat on December 18, 2018.
3. As an organizer attended 3 days international conference on title “Conservation of medicinal and aromatic plants for improving the livelihood of mountain communities through industrial linkages” Organized by the Center for plant Sciences and Biodiversity, University of Swat, Pakistan scheduled on September 03-5, 2018.
4. Attended 12-day Asia-Pacific Water Leadership Programme (**APWLP**), offered by **HUC-ICIMOD** at Australia scheduled between April 08-19, 2018.
5. Attended 4-days international conference on title the 15<sup>th</sup> IWA World Conference on Anaerobic Digestion (**AD-15**), Chinese Academy of Sciences, Beijing, China, scheduled on October 17-20, 2017.
6. Participated in the 2<sup>nd</sup> Environmental sciences conference titled “ENVIRONMENT AND CLIMATE CHANGE-LOCAL PERSPECTIVES 2014” Organized by the Department of Environmental Sciences, University of Peshawar, Pakistan scheduled at Baragali Summer Campus, June 4-6, 2014.
7. Participated in one day workshop titled “INDOR AMBIENT AIR POLLUTION” Organized by the Environmental Protection Agency, Government of Khyber Pakhtunkhwa, Peshawar, Pakistan scheduled at Sir Sahibzada Abdul Qayyum Auditorium, University of Peshawar, on May 31, 2013.
8. Attended 3-days **CAS-TWAS** Symposium (**GCT 2017**) on Green Chemistry and Technology for Sustainable Development, organized by the Institute of Process Engineering (**IPE**), Chinese Academy of Sciences, Beijing, China, scheduled on September 4-6, 2017.
9. Attended 3-days Yellow Sea Ecosystem Symposium (**YES 2017**) on title: 3<sup>rd</sup> Sino-Korea Symposium on Environmental Health and Ecological Safety, organized by the Research Center

for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing, China, scheduled on July 5-7, 2017.

10. As a member National Curriculum Revision Committee (NCRC) attended the National Curriculum Revision Committee preliminary meeting in Freshwater Biology & Fisheries” organized by Higher Education Commission (HEC) scheduled on February 23-25, 2016 at the Women University Multan, Pakistan
  11. As an organizer attended one National Symposium on title “Economic Development through Medical Plants Cultivation and Conservation” Organized by the Center for plant Sciences and Biodiversity, University of Swat, Pakistan scheduled on January 21<sup>st</sup>, 2006
  12. Attended one day HEC-POST DOCTORAL FELLOWSHIP PROGRAM Workshop on Title “Writing Effective Post-Doctoral Research Proposal Relevant to National Needs” Organized by the ORIC University of Malakand, KP, Pakistan, scheduled on December 17<sup>th</sup>, 2015.
  13. Attended 3-days conference, 2nd Environmental Science Conference on title: ENVIRONMENT AND CLIMATE CHANGE- LOCAL PERSPECTIVES 2014, Organized by the Department of Environmental Science, University of Peshawar, Pakistan, 4-6th June 2014.
  14. Attended 4-days SCOPE-ZHONGYU Environmental Forum (2012) on Title: New Tools and Instruments for the Observation and Management of Environmental Development in Taiyuan, Shanxi Province, China.
  15. **Forum:** Attended 5-days TWAS-ROESEAP Symposium (2012) on Title: Green Chemistry and Engineering of Developing Countries (2012 TWAS-ROESEAP-GCE).
  16. Attended 3-days international seminar on title: The 4<sup>th</sup> Bio-Asia Regional Seminar, 5<sup>th</sup> to 7<sup>th</sup> of November 2012, at the institute of Biophysics, Chinese Academy of Sciences, 15 Datun Road, Chaoyang District, Beijing, China.
  17. Attended 3-days training on Generic Behavioral change communication conducted by USAID.
  18. As an organizer attended one day symposium on “Biodiversity Conservation of Medical Plants of northern Areas at the Eve of Celebration of International Biodiversity day (May,22 2013-14) at University of Swat, Swat, Pakistan
  19. Attended 2-days workshop on Biodiversity in Peshawar University, KP, Pakistan
  20. Attended 3-days workshop on climatic change, organized by EPA- Pakistan
  21. Attended 2-days Conference on title Ozone Depletion, organized by EPA-Pakistan
  22. Attended 4-day training workshop of “Active Citizens Learning Programme” organized by *British Council Peshawar Pakistan* [www.britishcouncil.org.pk](http://www.britishcouncil.org.pk)
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## **Professional Presentation:**

### **05 Entry(s)**

1. Presentation on title “Bioavailability of perfluoroalkyl acids (PFAAs) in environmental matrices of Pakistan and its application to risk assessment” in a symposium organized the Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing, China on July 12, 2017.
2. Presentation on title “Evaluation of toxicological risk of foodstuffs contaminated with heavy metals in Swat, Pakistan” in the 2nd Environmental Science Conference on title: ENVIRONMENT AND CLIMATE CHANGE- LOCAL PERSPECTIVES 2014, Organized by the Department of Environmental Science, University of Peshawar, 4-6th June 2014.
3. Presentation on title” Health risks associated with heavy metals in the drinking water of Swat, northern Pakistan” in the 4-days SCOPE-ZHONGYU Environmental Forum (2012) on Title: New Tools and Instruments for the Observation and Management of Environmental Development in Taiyuan, Shanxi Province, China.
4. Presentation on title “Heavy metals in agricultural soils and crops and their health risks in Swat District, northern Pakistan” in the 5-days TWAS-ROESEAP Symposium (2012) on Title: Green Chemistry and Engineering of Developing Countries (2012 TWAS-ROESEAP-GCE).
5. Attended 3-days international seminar on title: The 4<sup>th</sup> Bio-Asia Regional Seminar, 5<sup>th</sup> to 7<sup>th</sup> of November 2012, at the institute of Biophysics, Chines Academy of Sciences, 15 Datun Road, Chaoyang District, Beijing, China.

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## **Awards and Honors:**

### **06 Entry(s)**

1. Awarded 14-days Himalayan University Consortium (HUC)-International Centre for Integrated Mountain Development (ICIMOD) Regional Training on Springshed Management for Socio-Ecological Resilience in the Hindu Kush Himalaya held at Kathmandu/Godavari, Nepal, 24 March–6 April 2019.
2. Awarded 12-day Asia-Pacific Water Leadership Programme (APWLP), offered by HUC-ICIMOD at Australia scheduled between April 08-19, 2018.
3. Awarded the 2015-16 CAS President’s International Fellowship Initiative (PIFI), Postdoctoral Fellowship in RCEES, Beijing, China.
4. Awarded the 2015-16 National Council for Scientific and Technological Development (CNPq), Brazil, and The World Academy of Sciences (TWAS) Postdoctoral Fellowship under FR number: 3240286498 in Santa Maria Brazil.
5. Awarded TWAS-CAS, postgraduate research fellowship in the RCEES, CAS, Beijing, China. (Session 2011-2012).
6. Achieved first division throughout the academic’s studies i.e. SSC, HSSC, BS (honr), Master, and PhD.

## **Referencing & Reviewing:**

06 Entry(s)

Working as a referee/reviewer for several international journals including;

1. Environmental Monitoring and Assessment
  2. Ecotoxicology and Environmental Safety
  3. Journal of Geochemical Exploration
  4. Arabian Journal of Geosciences
  5. Journal of Environmental Sciences
  6. Journal of Himalayan Earth Sciences etc.
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## **Fields surveys:**

06 Entry(s)

1. Springshed Management practices for Socio-Ecological Resilience in Kathmandu/Godavari Knowledge Park, Nepal, 24 March–6 April 2019.
  2. Australian water policy reform and improved use and management of water resources a survey focus on integrated river basin management (IRBM) and governance, including various aspects of the integrated water resources management (IWRM) approach, including gender, ecosystems, social inclusiveness and community engagement, public and private cooperation, and water sharing between sectors and across states along in the Murray-Darling Basin of Australia (8 April – 19 April 2018).
  3. Geological survey of mountain Range of Warsak Dam and some mountainous areas of Kohat Pakistan. Sponsored by Department of Environmental Sciences, University of Peshawar (15-18<sup>th</sup> June, 2006)
  4. Environmental Impact Assessment (EIA) field study of Ayubia National Park, Pakistan. Sponsored by WWF, SUNGI, Forestry Department and Department Environmental Sciences, University of Peshawar (5-11<sup>th</sup> June, 2007)
  5. Study visit to Non-Governmental Organization Working in the field of Environment Gilgit-Baltistan, Pakistan. Sponsored by Department of Environmental Sciences, University of Peshawar (7-16<sup>th</sup> June, 2008)
  6. Monitoring and inspection of Thanda Dam National Park, kohat, Pakistan. Sponsored by Wildlife Department, Forestry Department and Department of Environmental Sciences, University of Peshawar (7-14<sup>th</sup> July, 2008).
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### **Language Skills:**

03 Entry(s)

1. Excellent and advanced level skills of the English language in writing, reading, listening and speaking.
  2. Good command over written, spoken and reading Urdu language with excellent communication skills.
  3. Can also read, write and speak native Pushto language.
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### **Computer skills:**

06 Entry(s)

Full command over latest MS office, SPSS, Photoshop, Origin, Sigma plot, GIS software's along with full command over the operation of scientific instruments including AASA, GC-MS, and HPLC etc.

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### **Technical skills:**

04 Entry(s)

1. I have been through intense phase of technical education learning during my academic career and based on this struggle, I have been ranked in the elite group of students evidenced by throughout first divisions in my entire academic career.
  2. My technical skills got polished specially during the past couple of years during the course of my Ph.D degree at Peshawar University and research work at Research Centre for Eco-Environmental Sciences (RCEES), Chinese Academy of Sciences (CAS), Beijing, China.
  3. I gained a great amount of theoretical and practical insight into both academic i.e. Environment and personnel career development. During my studies I evolved a new and novel method for the assessment of Environmental pollution and their health impacts which could benefit our environment and society both directly and indirectly. As I have been involved in different blends of subjects including environmental chemistry, and environmental ecology, environmental impact assessment and ecotoxicology since my intermediate, which makes me extremely efficient and diverse in approaching and solving the interdisciplinary research problems in in these fields.
  4. Moreover, I have excellent command over Concept Papers preparation, Composing and Report Writing, Mobilization and Management, and Project Proposal Writing etc.
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### **Undergoing research projects:**

#### **10 Entry(s)**

Projects (as a project leader or a participant)

1. Perfluoroalkyl substances (PFAS) in the river Soan, Pakistan: emissions and its implications for risk assessment.
  2. Bioavailability of perfluoroalkyl acids (PFAAs) in environmental matrices and its application to risk assessment; a comparative study between Pakistan and China) submitted to National Natural Science Foundation of China.
  3. Assessment of perfluoroalkyl acids (PFAAS) in river kabul and its application to risk assessment) submitted To Higher Education Archives & Libraries Department Khyber Pakhtunkhwa, Pakistan.
  4. Bioavailability of heavy metals in aquatic environment matrices of Pakistan and its application to risk assessment.
  5. Quantification, distribution and bioaccumulation of Emerging Pollutants (perfluorinated compounds) in the environmental matrices of Pakistan.
  6. Assessment of drinking water quality and human health risks in Swat, northern Pakistan
  7. Hospital waste management in Swat, northern Pakistan
  8. Quantification of heavy metals in agricultural soil, crops and water and their respective human health risks in District Shangla and Kohistan, Khyber Pakhtunkhwa (KP), Pakistan
  9. Determination of Emerging Pollutants in Water and their Removal by Advanced Oxidation Technologies
  10. Phytoremediation of contaminated sites through indigenous plant species
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### **Memberships in professional societies and committees:**

#### **11 Entry(s)**

1. Active member of ICIMOD thematic working group related to water, disaster and resilience; and climate change since April 8-19, 2018
  2. National Curriculum Revision Committee (NCRC).
  3. Fee Exemption Review Committee for the children of University of Swat Employees. Since July 3, 2014.
  4. Chinese Universities Collaboration Committee
  5. University of Swat, Departmental Semester Committee, Since May 2014.
  6. University of Swat, Departmental Purchas Committee, Science Feb. 22, 2013
  7. University of Swat, Books Recommendation Committee, Since Sep. 3, 2014
  8. Inspection Committee for Stationary Items
  9. Committee for Promotion of Olive Plantation
  10. International human Rights society, Law College, Peshawar of University, KP, Pakistan
  11. Creative Art Society, Peshawar University, KP, Pakistan
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**Countries Visited:**

05 Entry(s)

<b>S.No.</b>	<b>Country Visited</b>	<b>Year of visit</b>	<b>Duration of stay</b>	<b>Purpose of Visit</b>
1	Saudi Arab	2008, 2013	15-Days (twice)	Umra
2	Abu Dubai	2011	4-Days	Transit Visa Stay
3	China	2011, 2017	01-Year (twice)	PhD/Postdoc Studies
4	Australia	2018	12-Days	APWLP-2018
5	Nepal	2019	14-Days	Springshed Managment-2019

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**References:**

Will be provided on request